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JUL 09 2008

Application No. 10/678,408

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A lubricating composition comprising:
 - (a) a major portion of an oil of lubricating viscosity; and
 - (b) about 0.1 to 10 percent by mass of an antiwear additive comprising:
 - (1) an organo borate ester composition formed by reacting about 1 mole fatty oil and about 1.8 moles diethanolamine followed by subsequent reaction with boric acid, wherein the boron content of the organo borate ester composition is between 0.8 and 1.2 wt. % and, wherein the amount of organo borate ester in the lubricating composition is less than about 1.0 percent by mass; and
 - (2) one or more components selected from the group consisting of :
 - (i) a 1,3,4-thiadiazole compound comprising butanedioic acid ((4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl)thio-bis(2-ethyl hexyl) ester, wherein the ratio of organo borate ester to the 1, 3, 4 – thiadiazole compound is 1:3 to 15:1
 - (ii) a bisdithiocarbamate, compound comprising methylene bis (dibutyl)dithiocarbamate), wherein the ratio of organo borate ester: bisdithiocarbamate is 1:6 to 15:1;
 - (iii) dithiocarbamates compound comprising molybdenum

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dialkyldithiocarbamate or zinc dialkyldithiocarbamate, wherein the ratio of organo borate ester: dithiocarbamate is 1:15 to 15:1

(iv) a phosphorodithioate compound comprising primary alkyl zincdithiophosphate, wherein the ratio of organo borate ester: phosphorodithioate is 1:15 to 15:1; and

(v) phosphorodithioate esters compound comprising dialkyl dithiophosphate, wherein the ratio of organo borate ester: phosphorodithioate ester is 1:15 to 15:1; and

(vi) a non-sulfur molybdenum additive prepared by reacting (a) about 1.0 mole of fatty oil having 12 or more carbon atoms, (b) about 1.0 to 2.5 moles diethanolamine and (c) a molybdenum source, wherein the ratio of organo borate ester: non sulfur molybdenum additive is 1:15 to 15:1.

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Previously Presented) The composition of claim 1, wherein component (2) comprises (iii) the dithiocarbamates.

7. (Previously Presented) The composition of claim 1, wherein the ratio of component (1) to component (2) is about 2:1 to 1:1.

8. (Previously Presented) The composition of claim 1, wherein component (2) comprises (ii) the bisdithiocarbamates.

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9. (Original) The composition of claim 8, wherein the ratio is about 1:4 to 9:1.
10. (Currently Amended) The composition of claim 1 3, wherein component (2) comprises (iv) the phosphorodithioates.
11. (Currently Amended) The composition of claim 1 3, wherein component (2) comprises (v) phosphorodithioate esters.
12. (Currently Amended) The composition of claim 1 3, wherein component (2) comprises the non-sulfur molybdenum additive of (vi).
13. (Original) The composition of claim 12, wherein the ratio is about 1:1 to 3:1.
14. (Currently Amended) The composition of claim 1 3, wherein component (2) comprises (i) the thiadiazoles.
15. (Original) The composition of claim 14, wherein the ratio is about 3:7 to 9:1.
16. (Cancelled)
17. (Cancelled)
18. (Previously Presented) A method for providing increased antiwear protection to an engine, said method comprising the step of using a lubricating composition comprising
(a) a major portion of an oil of lubricating viscosity; and
(b) about 0.1 to 10 percent by mass of an antiwear additive comprising:
 - (1) an organo borate ester composition formed by reacting about 1 mole fatty oil and about 1.8 moles diethanolamine followed by subsequent reaction with boric acid, wherein the boron content of the organo borate ester composition is between 0.8 and 1.2 wt. % and, wherein the amount of organo borate ester in the lubricating composition is less than about 1.0 percent by mass; and

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(2) one or more components selected from the group consisting of :

- (i) a 1,3,4-thiadiazole compound comprising butanedioic acid ((4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl)thio-bis(2-ethyl hexyl) ester, wherein the ratio of organo borate ester to the 1, 3, 4 – thiadiazole compound is 1:3 to 15:1
- (ii) a bisdithiocarbamate compound comprising methylene bis (dibutyldithiocarbamate), wherein the ratio of organo borate ester: bisdithiocarbamate is 1:6 to 15:1;
- (iii) dithiocarbamates compound comprising molybdenum dialkyldithiocarbamate or zinc dialkyldithiocarbamate, wherein the ratio of organo borate ester: dithiocarbamate is 1:15 to 15:1
- (iv) a phosphorodithioate compound comprising primary alkyl zincdithiophosphate, wherein the ratio of organo borate ester: phosphorodithioate is 1:15 to 15:1; and
- (v) phosphorodithioate esters compound comprising dialkyl dithiophosphate, wherein the ratio of organo borte ester: phosphorodithioate ester is 1:15 to 15:1; and
- (vi) a non-sulfur molybdenum additive prepared by reacting (a) about 1.0 mole of fatty oil having 12 or more carbon atoms, (b) about 1.0 to 2.5 moles diethanolamine and (c) a molybdenum source, wherein the ratio of organo borate ester: non sulfur molybdenum additive is 1:15 to 15:1.

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19. (New) A lubricating composition comprising:

(a) a major portion of an oil of lubricating viscosity; and

(b) about 0.1 to 10 percent by mass of an antiwear additive comprising:

(1) an organo borate ester composition formed by partially borating with boric acid a mixture of diethanolamide and monoglyceride, wherein the boron content of the organo borate ester composition is between 0.8 and 1.2 wt. % and, wherein the amount of organo borate ester in the lubricating composition is less than about 1.0 percent by mass; and

(2) one or more components selected from the group consisting of :

(i) a 1,3,4-thiadiazole compound comprising butanedioic acid ((4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl)thio-bis(2-ethyl hexyl) ester, wherein the ratio of organo borate ester to the 1, 3, 4 - thiadiazole compound is 1:3 to 15:1

(ii) a bisdithiocarbamate, compound comprising methylene bis (dibutyldithiocarbamate), wherein the ratio of organo borate ester: bisdithiocarbamate is 1:6 to 15:1;

(iii) dithiocarbamates compound comprising molybdenum dialkyldithiocarbamate or zinc dialkyldithiocarbamate, wherein the ratio of organo borate ester: dithiocarbamate is 1:15 to 15:1

(iv) a phosphorodithioate compound comprising primary alkyl zincdithiophosphate, wherein the ratio of organo borate ester:

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phosphorodithioate is 1:15 to 15:1; and

(v) phosphorodithioate esters compound comprising dialkyl dithiophosphate, wherein the ratio of organo borate ester:

phosphorodithioate ester is 1:15 to 15:1; and

(vi) a non-sulfur molybdenum additive prepared by reacting (a) about 1.0 mole of fatty oil having 12 or more carbon atoms, (b) about 1.0 to 2.5 moles diethanolamine and (c) a molybdenum source, wherein the ratio of organo borate ester: non sulfur molybdenum additive is 1:15 to 15:1.